INSTALLATION/OPERATION



300 Series Flat Panel LCD Monitors



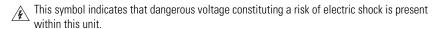
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Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one blade wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the points where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plus is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14. Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases shall be placed on the apparatus.
- 15. WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 16. Installation should be done only by qualified personnel and conform to all local codes.
- 17. Unless this unit is specifically marked as NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
- 18. Use only installation methods and materials capable of supporting four times the maximum specified load.
- 19. Only use replacement parts recommended by Pelco.
- 20. Avoid touching the screen directly with your fingers as the oils from your skin may be difficult to remove from the LCD.
- 21. Do not apply direct pressure on the screen.
- 22. Keep the monitor in a dust-free environment and away from strong electromagnetic fields.
- 23. Do not use attachments, such as mounts, that are not recommended by Pelco. They may be hazardous.
- 24. Do not place the monitor on an unstable stand, bracket, or mount. The unit may fall, causing serious damage to the unit or injury to a person. Only use mounts recommended by Pelco.
- 25. A CCC-approved power cord must be used to power this equipment when used in China.

The product and/or manual may bear the following marks:



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit

CAUTION:

RISK OF ELECTRIC SHOCK.
DO NOT OPEN.

Regulatory Notices

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RADIO AND TELEVISION INTERFERENCE

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You may also find helpful the following booklet, prepared by the FCC: "How to Identify and Resolve Radio-TV Interference Problems." This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402.

Changes and Modifications not expressly approved by the manufacturer or registrant of this equipment can void your authority to operate this equipment under Federal Communications Commission's rules.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Description

The 300 Series LCD monitors, designed specifically for the security industry, provide a high resolution display of computer signals and/or composite video. These 15-, 17-, and 19-inch monitors use a color, thin film transfer (TFT) active matrix LCD panel that automatically adapts to the appropriate input resolution.

The 300 Series provides looping composite (BNC) and S-Video inputs. Additionally, these models provide a VGA input to support the use of DVRs (digital video recorders) and PC applications. This multimode functionality—combined with a quick panel response time to minimize ghosting in motion video, ergonomic design, autoranging internal power supply, and low power consumption—makes the 300 Series ideal for applications requiring a VGA display with composite video capabilities.

The 300 Series features a folding picture frame-style desktop stand, optional rack mount kits, and VESA®-compliant mounting holes to easily adapt to any VESA-compliant wall mount.

These monitors automatically detect and display the correct video format (NTSC or PAL) and are powered by an internal autoranging power supply.

The 300 Series uses four long life CCFT (cold cathode florescent tube) backlights to maintain the brightness level over time, eliminating the brightness degradation common in aging CRT monitors.

Adjustments of standard monitor display parameters are made using user-friendly, on-screen menus and front panel controls.

MODELS

PMCL315 15-inch (381 mm) active TFT LCD monitor PMCL317 17-inch (432 mm) active TFT LCD monitor PMCL319 19-inch (483 mm) active TFT LCD monitor

PACKAGE CONTENTS

- 1 15-, 17-, or 19-inch TFT LCD monitor
- 1 VGA cable with 15-pin, D-sub connector
- 1 US standard power cable
- 1 EU standard power cable
- 1 Installation/Operation manual

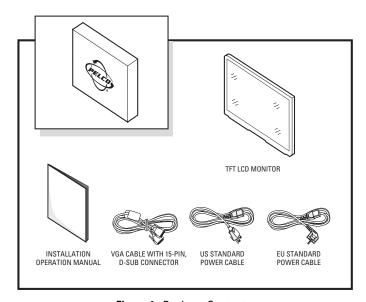


Figure 1. Package Contents

Installation

The monitor can be placed on any flat surface (desk or table), or it can be rack mounted or wall mounted.

NOTE: Only use a recommended rack mount kit such as the PMCL-RM15, PMCL-RM17, PMCL-RM19, or PMCL-WM. To rack-mount the monitor, follow the instructions supplied with the rack mount kit, or wall mount kit.

DESKTOP STAND

You can manually adjust the 300 Series monitor to the viewing angle you want by repositioning the foot stand on the back of the monitor.

REAR PANEL CONNECTORS

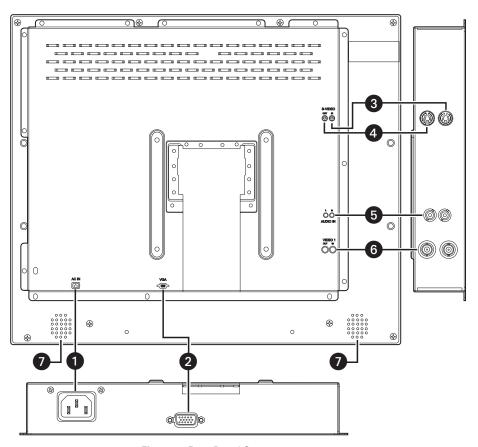


Figure 2. Rear Panel Connectors

- 1. AC IN: Can be connected to a 100-240 VAC, 50/60 Hz source.
- 2. VGA: Can be connected to the VGA cable (supplied).
- 3. **S-VIDEO IN:** Connection can input an S-Video signal by DIN socket.
- 4. **S-VIDEO OUT:** Can output an S-Video signal by DIN socket. This socket is the loop-through output (maximum of one looping operation only recommended).
- 5. **AUDIO IN:** These RCA sockets can input sound from an audio source.
- 6. **VIDEO 1 IN/OUT:** The IN BNC socket can be connected to composite video output. The OUT BNC socket is the loop-through output with auto-termination from above video inputs.
- 7. **Speakers:** The unit has two built-in speakers.

VIDEO AND POWER CONNECTIONS

Refer to Figure 2 for video, audio, and power connections.

- 1. Connect the video cable (refer to Table A for video coaxial requirements.)
 - a. Connect the video cable to one of the following, depending on the input source.
 - If composite, connect to the BNC video input labeled VIDEO 1 IN on the back panel of the monitor. (Any video connected to the
 inputs will be terminated unless the output for the corresponding channel is used, in which case it will not terminate and will act
 as a pass-through.)
 - If S-Video, connect to the input labeled S-VIDEO IN on the back panel of the monitor. (Any video connected to the inputs will be terminated unless the output for the corresponding channel is used, in which case it will not terminate and will act as a pass-through.)
 - If VGA, connect to the input labeled VGA IN on the back panel of the monitor.
 - b. Looping Operation Only (Refer to Figure 3 and Figure 4). Connect a video cable to the BNC video connector labeled VIDEO 1 OUT for composite or connect the video cable to the connector labeled S-VIDEO OUT for S-Video.

NOTE: Three LCDs maximum for looping (except for S-Video, where only one loop is advised).

- 2. Connect audio. Connect one end of the audio input cables (not supplied) to the connections labeled AUDIO IN on the back panel of the monitor and the other end to an audio source.
- 3. Connect power. Plug the provided power cord into the AC IN connection on the back panel. Plug the other end of the cord into a power receptacle.

Table A. Video Coaxial Cable Requirements

Cable Type*	Maximum Distance
RG59/U	750 ft (229 m)
RG6/U	1,000 ft (305 m)
RG11/U	1,500 ft (457 m)

^{*}Minimum cable requirements:

75-ohms impedance. All-copper center conductor.

95% braided copper shield.

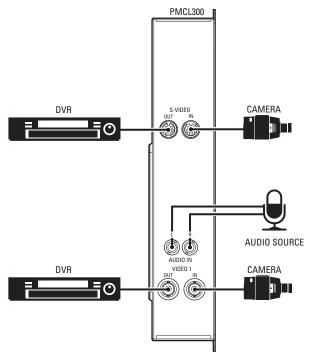


Figure 3. Looping Operation: One Monitor with External Video Equipment

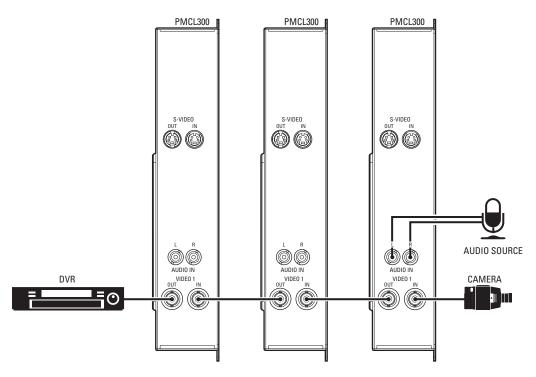


Figure 4. Looping Operation: Maximum of Three Monitors with External Video Equipment

NOTE: Looping more than three 300 Series monitors is *not* recommended.

FRONT PANEL CONTROLS

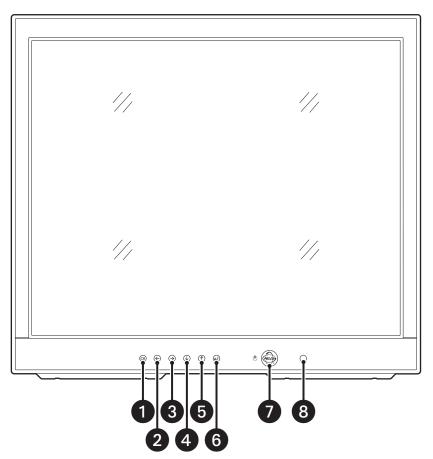


Figure 5. Front Panel Controls

- 1. **CH (menu):** Selects the input signal.
- 3. : Increases the value of a selected menu item, and increases the volume.
- 4. **1:** Moves the highlighter downward through a menu.
- 5. **\(\)**: Moves the highlighter upward through a menu.
- 6. Accesses pop-up menus and is also used to select a highlighted menu item.
- 7. (Pelco logo): Turns on or off the monitor's power.
- 8. This opening is for an infrared sensor (400 Series monitors only).

OSD CONTROL MENUS

Unless otherwise noted, the menus are the same for the PMCL315, PMCL317, and PMCL319.

To use the menus:

- 1. Press the menu (CH) button to access the Main menu. (To access the Main menu, you must press the menu [CH] button until you enter VGA mode.)
- 2. Use the up and down arrow buttons to highlight a selection.
- 3. Press the menu (CH) button to select an item.
- 4. Use the left and right arrow buttons to adjust the setting on a selected item.

MAIN MENU

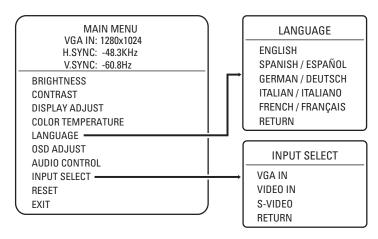


Figure 6. Main Menu

The Main menu is accessed by pressing the menu (CH) button on the monitor's front panel until you enter VGA mode. After selecting a high-lighted item with the menu (CH) button, use the left and right arrow buttons to adjust the setting.

Main Menu Field Definitions

BRIGHTNESS: Adjusts the background black level of the video screen image.

CONTRAST: Adjusts the foreground white level of the video screen image.

DISPLAY ADJUST: Accesses the Display Adjust menu.

COLOR TEMPERATURE: Adjusts the color temperature. You can also access the User Preset menu from this selection.

LANGUAGE: (Future feature.) Lets you choose from five languages: English, Spanish, German, Italian, or French.

OSD ADJUST: Accesses the OSD (on-screen display) Adjust menu.

AUDIO CONTROL: Accesses the Audio Control menu.

INPUT SELECT: Lets you select VGA IN, VIDEO IN, or S-VIDEO. Return takes you back to the Main menu.

RESET: Sets the monitor to the last customized set point.

EXIT: Exits the menu system.

DISPLAY ADJUST MENU

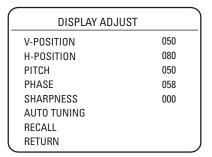


Figure 7. Display Adjust Menu

Display Adjust Menu Field Definitions

V-POSITION: Moves the screen up or down.

H-POSITION: Moves the screen image left or right.

PITCH: Adjusts image distortion appearing as vertical bars or noise on the screen.

PHASE: Adjusts image distortion appearing as horizontal noise on the screen.

SHARPNESS: Adjusts the picture softer or sharper.

AUTO TUNING: Retunes to the incoming VGA signal if the picture looks odd.

RECALL: Sets the monitor to the last customized set point.

RETURN: Takes you back to the Main menu.

COLOR TEMPERATURE MENU

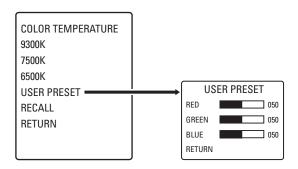


Figure 8. Color Temperature Menu

Color Temperature Menu Field Definitions

9300K, 7500K, 6500K: These settings change the color temperature to suit your preference. Low color temperature implies warmer (more yellow/red) light while high color temperature implies a colder (more blue) light. The unit of measurement is Kelvin (K).

USER PRESET: Accesses the USER PRESET menu. The options are as follows:

- RED, GREEN, BLUE: These settings let you customize the color temperature to your own preference by adjusting the amount of red, green, and blue.
- RETURN: Takes you back to the previous menu.

RECALL: Restores this menu's settings to the factory defaults.

RETURN: Takes you back to the Main menu.

OSD ADJUST MENU

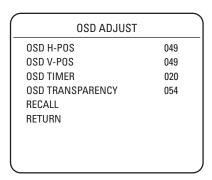


Figure 9. OSD Adjust Menu

OSD Adjust Menu Field Definitions

OSD H-POS: Moves the screen image left or right

OSD V-POS: Moves the screen up or down.

OSD TIMER: Sets the number of seconds the menu remains on the screen. The maximum setting is 104.

OSD TRANSPARENCY: Makes the screen overlay fainter.

RECALL: Sets the monitor to the last customized set point.

RETURN: Takes you back to the Main menu.

AUDIO CONTROL MENU

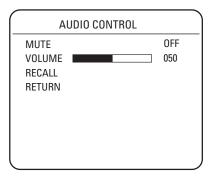


Figure 10. Audio Control Menu

Audio Control Menu Field Definitions

MUTE: Toggles muting on or off. Use the arrow keys to highlight, and then press the menu button.

VOLUME: Controls the volume. Highlight and use the left or right arrow keys to increase or decrease the volume. Press the menu button when finished.

RECALL: Resets audio controls to the last customized set point.

RETURN: Takes you back to the Main menu.

VIDEO ADJUST MENU

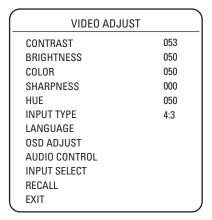


Figure 11. Video Adjust Menu

The Video Adjust menu is accessed by pressing the menu button on the monitor's front panel until you enter S-Video mode or Video In or Out mode.

Video Adjust Menu Field Definitions

 $\textbf{CONTRAST:} \ \text{Adjusts foreground white level of the video screen image}.$

 $\textbf{BRIGHTNESS:} \ \text{Adjusts background black level of the video screen image}.$

COLOR: Adjusts the color saturation of the video signal. **SHARPNESS:** Adjusts the picture softer or sharper.

HUE: Adjusts the screen tint.

INPUT TYPE: Adjusts the aspect ratio to either 4:3 or 5:4.

LANGUAGE: Lets you choose from five languages: English, Spanish, German, Italian, or French.

OSD ADJUST: Accesses the OSD (on-screen display) Adjust menu.

AUDIO CONTROL: Accesses the Audio Control menu.

INPUT SELECT: Lets you select VGA IN, VIDEO IN, or S-VIDEO. Return takes you to the Main menu.

RECALL: Sets the monitor to the last customized set point.

EXIT: Exits the menu system.

Maintenance

If the quality of the picture is poor and cannot be improved by making adjustments on the front control panel, inspect all system connections and cable runs.



WARNING: To reduce the risk of electrical shock, do not remove the cover or back of the monitor. No user-serviceable parts are inside. Refer servicing to qualified personnel, or contact the Pelco Customer Service Department for assistance, 1-800-289-9100. Refer to the Product Warranty and Return Information located on the back inside cover of this manual.

CLEANING

- Gently wipe your screen with a clean camel hair brush or a soft, clean, lint-free cloth.
- Gently apply pressure to the screen surface to clean the display.
- Do not spray any liquid directly on the screen or the LCD monitor casing.
- Chemical cleaners can damage the screen or the LCD monitor casing.

Supported Input Modes

Mode	Resolution	H Freq (kHz)	V Freq (Hz)
0	720 x 350	31.469	70.087
1	640 x 480	31.469	59.940
2	640 x 480	35.000	66.667
3	640 x 480	37.861	72.809
4	640 x 480	37.500	75.000
5	720 x 400	31.469	70.087
6	800 x 600	35.156	56.250
7	800 x 600	37.879	60.317
8	800 x 600	48.077	72.188
9	800 x 600	46.875	75.000
10*	1024 x 768	48.363	60.004
10**	832 x 624	49.750	74.500
11*	1024 x 768	60.023	75.029
11**	1280 x 1024	48.363	60.004

^{*}PMC3L15

^{**}PMCL317, PMCL319

Specifications

MODELS

PMCL315 15-inch (381 mm) active TFT LCD monitor, multimode PMCL317 17-inch (432 mm) active TFT LCD monitor, multimode PMCL319 19-inch (483 mm) active TFT LCD monitor, multimode

GENERAL

LCD Panel Pixel Array

PMCL315 1024 x 768, 75 Hz

PMCL317, PMCL319 1280 x 1024, 75 Hz (maximum VGA resolution is 1024 x 768 on the PMCL315, and 1280 x 1024)

Panel Aspect Ratio

PMCL315 4:3

PMCL317, PMCL319 4:3 composite, 5:4 VGA

Viewing Area

 PMCL315
 304 x 228 mm

 PMCL317
 338 x 270 mm

 PMCL319
 376 x 301 mm

Pixel Pitch

PMCL315 0.297 x 0.297 mm PMCL317 0.264 x 0.264 mm PMCL319 0.294 x 0.294 mm

Brightness

 $\begin{array}{ccc} PMCL315 & 350 \text{ cd/m}^2 \\ PMCL317 & 400 \text{ cd/m}^2 \\ PMCL319 & 380 \text{ cd/m}^2 \\ Contrast Ratio & 500:1 \\ Backlight Type & 4 \text{ CCFL} \\ Panel Lamp Life & 40,000 \text{ hours} \\ \end{array}$

Viewing Angle (H/V)

PMCL315 140°/125° PMCL317 140°/130° PMCL319 150°/130° Tilt <10° to >45°

Display Colors

PMCL315, PMCL317 16.2 million PMCL319 16.7 million

Response Time

PMCL315 16 ms PMCL317, PMCL319 8 ms

Speakers 2, integrated, 1 W each

Front Panel Controls Video input, menu access and navigation, power Indicators LED (power on/off), on-screen ("no signal")

ELECTRICAL

Input Voltage 100-240 VAC, 50/60 Hz, internal power supply

Power Consumption <50 W (on), <5 W (standby)

Input Interfaces

Video* 1 BNC, looping; 1 S-Video, looping; 1 VGA

Audio 1 (L/R), RCA, looping

Horizontal Frequency

PMCL315 30 kHz to 60 kHz
PMCL317, PMCL319 30 kHz to 80 kHz
Vertical Frequency 56 Hz to 75 Hz
Sync Format NTSC/PAL autosensing

^{*}Maximum VGA resolution is 1024 x 768 on the PMCL315, and 1280 x 1024 on the PMCL317 and PMCL319.

PHYSICAL

Dimensions

PMCL315 2.9" D x 13.7" W x 11.8" H (7.4 x 34.7 x 29.9 cm)
PMCL317 3.2" D x 15.0" W x 13.4" H (8.0 x 38.1 x 34.1 cm)
PMCL319 3.3" D x 16.6" W x 14.7" H (8.3 x 42.1 x 37.4 cm)

Unit Weight

PMCL315 9.6 lb (4.4 kg)
PMCL317 12.4 lb (5.6 kg)
PMCL319 14.5 lb (6.6 kg)

Shipping Weight

PMCL315 13.0 lb (5.9 kg)
PMCL317 16.0 lb (7.3 kg)
PMCL319 19.0 lb (8.6 kg)

ENVIRONMENTAL

Operating Temperature 32° to 104°F (0° to 40°C)
Storage Temperature -4° to 140°F (-20° to 60°C)
Operating Humidity 20% to 85%, noncondensing
Storage Humidity 5% to 90%, noncondensing

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship for a period of one year after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra III™, Esprit®, ExSite®, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- 1. Model and serial number
- 2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department Pelco 3500 Pelco Way Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco 3500 Pelco Way Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors 473 Fccles Avenue South San Francisco, CA 94080 USA Phone: 650-737-1700 Fax: 650-737-0933

☼ Green The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

REVISION HISTORY

Manual #	Date	Comments
C2926M	12/05	Original version.
C2926M-A	1/06	Changed PMCL315 diagonal screen size to 381 mm and PMCL317 diagonal screen size to 432 mm. Changed text in Figure 6 and in its field descriptions. Added three
		fields to Figure 11 and to its field descriptions. Removed second occurrence of Tilt description in the Specifications section.
C2926M-B	12/06	Changed all response time references for the 17" and 19" models from 12 ms to 8 ms.
C2926M-C	5/07	Added information on page 11 that the user must be in VGA mode to access the Main menu. Corrected date and revision version inconsistencies between the cover
		and the manual pages.

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